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PHOTOGRAPHIC
INTERPRETATION
REPORT

NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER

ACTIVITY LEVELS AT RAIL-TO-ROAD TRANSFER POINTS AT SOVIET SSM COMPLEXES, USSR JANUARY-JUNE 1972

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NOVEMBER 1972
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15 PAGES
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ABSTRACT

1. This is the second in a series of reports on the activity levels at rail-to-road transfer points (RTPs) that support Soviet ICBMs. This report covers the period from 1 January to 30 June 1972 and is based on photography [redacted] It updates NPIC [redacted] which covers the period from October 1965 to November 1971.

2. Equipment continued to be seen at the RTPs of all 26 complexes included in the report. However, the types of equipment observed was about half of that seen during the period of the base report.

3. Included are 63 tables arranged by missile system, cataloguing the major types of equipment, numbers observed, dates observed, and their locations within the RTPs.

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INTRODUCTION

4. The rail-to-road transfer point is a standard installation for the receipt, inspection, maintenance, and distribution of missiles, warheads, propellants, and their associated equipment. Each of the 24 ICBM complexes and the two MR/IRBM complexes with SS-11 missiles has such an installation (Figure 1). The overall layout of these RTPs is essentially similar within each of the five missile systems they support. The RTPs for the SS-7 and SS-8 systems are fairly simple in their respective layout. Those for the other three missile systems (SS-9, SS-11, and SS-13) generally are more elaborate.

5. The purpose of the report is to provide a tabulation of the types of equipment within the RTPs, in order to serve as an indicator of the level of activity. The numbers and types of equipment observed during this reporting period were lower than those established during the base period. This is due to the greater time span covered by the initial report and the fact that deployment of the SS-9, SS-11, and SS-13 missile systems had been completed. Detailed data is contained in Tables 1-63. [redacted] Because specific items of equipment cannot be differentiated on the smaller scale of KH-4 photography the two KH-4 missions [redacted] were not used in preparing this report.

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BASIC DESCRIPTION

SS-7

6. Equipment continued to be present at the RTPs supporting the five SS-7 complexes, Itatka, Novosibirsk, Shadrinsk, Verkhnyaya Salda, and Yurya. No unusual amounts of equipment were noted.

SS-8

7. The level of activity continued to be low but constant at the RTPs serving the SS-8 complexes, Omsk and Tyumen.

SS-9

8. Equipment continued to be present at the RTPs supporting the six SS-9 complexes, Aleysk, Dombarovskiy, Imeni Gastello, Kartaly, Uzhur, and Zhangiz-Tobe. At the five RTPs that also support construction of the type IIIF launch sites, no specific IIIF-related equipment or significant changes in the counts of equipment were observed.

SS-11

9. Equipment continued to be present in normal quantities at the RTPs supporting the ten SS-11 complexes. These are Drovyanaya, Gladkaya, Kostroma, Kozelsk, Olovyannaya, Perm, Svobodnyy, Tatishchevo, Teykovo, and Yedrovo.

SS-11s at MR/IRBM Complexes

10. Derazhnya and Pervomaysk are the two MR/IRBM complexes whose RTPs also support SS-11 launch groups and construction of the type IIIG launch sites. Oxidizer and fuel transporters were seen in the RTP at Derazhnya for the first time in April 1972, which is when the propellant facility was first seen to be completed. No unusual amounts or types of equipment were noted.

SS-13

11. The level of activity was lower at the RTP supporting the SS-13 launch groups than during the period of the base report. The SS-13 missile system is only deployed at the Yoshkar-Ola ICBM Complex and the Yoshkar-Ola RTP supports six SS-7 launch sites in addition to six SS-13 launch groups.

12. Various types of equipment were observed within the RTPs at the ICBM complexes during this reporting period. The equipment count is summarized in Tables 1 through 63 and the tables are keyed to the facilities and areas by trinomes.

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SS-7

Table 1. SS-7 First-stage Transporter

Complex and date	No Items	Location
Shadrinsk		RIM
720319	5	
Verkhnyaya Salda		GSE
720127	5	GSE
720206	5	GSE
720228	6	GSE
720318	7	
Yurya		PRO
720320	1	

Table 2. SS-7 Second-stage Transporter

Shadrinsk		
720319	1	RIM
Verkhnyaya Salda		
720127	6	REC
720228	6	REC
720318	7	REC (6) GSE (1)
Yurya		
720320	1	PRO

Table 3. SS-7 Silo Loader

Yurya		
720320	2	PRO

Table 4. SS-7 Propellant Transporter

Complex and date	No Items	Location
Verkhnyaya Salda		
720127	3	PRO

Table 5. SS-7 Fuel Transporter

Shadrinsk		
720319	3	PRO

Table 6. Propellant Railcar

Itatka		
720121	2	GSE

Table 7. Missile Railcar

Novosibirsk		
720228	4	REC
Shadrinsk		
720121	4	PRO
720127	4	PRO
720228	2	PRO
720319	2	PRO
Verkhnyaya Salda		
720127	2	REC
720228	3	REC
Yurya		
720124	4	PRO

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SS-7 (Continued)

Table 8. Crane

Complex and date	No Items	Location
Verkhnyaya Salda		
720318	2	GSE

SS-8

Table 9. SS-8 Missile Transporter

Complex and date	No Items	Location
Omsk		
720125	3	GSE
720218	1	GSE
720331	1	GSE

Table 10. SS-8 Oxidizer Transporter

Complex and date	No Items	Location
Omsk		
720125	2	GSE
720218	2	GSE
Tyumen		
720121	3	GSE
720319	3	GSE

Table 11. SS-8 Fuel Transporter

Complex and date	No Items	Location
Omsk		
720125	2	GSE
720218	2	GSE
720331	3	GSE
Tyumen		
720121	3	GSE
720319	2	GSE

Table 12. Liquid Oxygen Railcar

Complex and date	No Items	Location
Omsk		
720125	2	REC
720218	2	REC
720331	2	REC
Tyumen		
720121	2	REC

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25X1

SS-9

Table 13. SS-9 First-stage Transporter

Complex and date	No Items	Location
Dombarovskiy		
720127	3	GSE
720223	3	GSE
Kartaly		
720127	2	GSE
720223	2	GSE

Table 14. SS-9 Second-stage Transporter

Dombarovskiy		
720127	3	GSE
720223	3	GSE
Kartaly		RIM (2) GSE (2)
720127	4	RIM (2) GSE (2)
720223	4	

Table 15. SS-9 Silo Loader

Uzhur		
720328	1	REC

Table 16. SS-9 Hoisting Fixture

Complex and date	No Items	Location
Aleysk		
720404	4	RIM
Dombarovskiy		
720328	4	GSE
Imeni Gastello		
720121	2	RIM
720122	2	RIM
Kartaly		
720127	4	RIM
720223	4	RIM
Uzhur		
720216	2	REC
720328	2	REC

Table 17. SS-9 Oxidizer Transporter

Zhangiz-Tobe		
720405	4	PRO

Table 18. SS-9 Fuel Transporter

Zhangiz-Tobe		
720405	3	PRO

TOP SECRET RUFF

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TOP SECRET RUFF

SS-9 (Continued)

Table 19. Oxidizer Railcar

Complex and date	No Items	Location
Uzhur		
720122	3	REC

Table 20. Fuel Railcar

Uzhur		
720122	1	REC

Table 21. Missile Railcar

Kartaly		
720127	6	REC
Uzhur		
720122	2	REC
720216	2	REC
720224	2	REC
720328	4	REC

Table 22. SS-9 Silo Checkout Frame

Kartaly		
720127	10	RIM
720223	10	RIM
Uzhur		
720122	5	GSE
720216	5	GSE
720224	5	GSE
720328	5	GSE
Zhangiz-Tobe		
720405	9	GSE

Table 23. House Trailer

Complex and date	No Items	Location
Aleysk		
720128	30	GSE (11) UNI (19)
720129	30	GSE (11) UNI (19)
720213	30	GSE (11) UNI (19)
720404	37	GSE (16) UNI (21)
Dombarovskiy		
720328	4	RIM
720405	3	RIM
Imeni Gastello		
720121	15	GSE
720122	15	GSE
Kartaly		
720127	13	GSE
720223	13	GSE
[redacted]		
Zhangiz-Tobe		
720405	10	TRN

Table 24. Crane

Uzhur		
720328	2	REC
[redacted]		

TOP SECRET RUFF

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25X1
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Sanitized Copy Approved for Release 2011/08/09 : CIA-RDP78T05162A000300010003-5

25X1

Table 27. SS-7 Missile Transporter

Complex and date	No Items	Location
Drovyanaya		
720331	3	RIM
Gladkaya		
720405	1	GSE
Svobodnyy		
720121	10	PRO (SS-7)
720320	9	PRO (SS-7)

Table 28. Missile Transporter

Kozelsk		
720127	6	REC
720204	6	REC
720319	7	REC

Table 29. SS-11 Missile Transporter

Gladkaya		
720329	1	RIM
Kostroma		
720127	4	RIM
720128	4	RIM
Kozelsk		
720127	2	RIM
720204	2	RIM
720319	2	RIM
Perm		
720409	2	RIM
Svobodnyy		
720320	2	RIM
Tatishchevo		
720122	4	RIM
720408	5	TNG (2) RIM (3)

Table 30. SS-7 First-stage Transporter

Complex and date	No Items	Location
Drovyanaya		
720331	1	RIM (SS-11)
Gladkaya		
720121	3	GSE
720124	3	GSE
720217	3	GSE
Svobodnyy		
720320	3	REC (SS-11)
Teykovo		
720128	4	GSE

Table 31. SS-7 Second-stage Transporter

Gladkaya		
720121	3	GSE
720124	3	GSE
720217	3	GSE
Teykovo		
720128	4	GSE
Perm		
720409	1	RIM SS-7

Table 32. SS-11 Silo Loader

Drovyanaya		
720331	1	RIM

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25X1

SS-11 (Continued)

Table 33. Hoisting Fixture

Complex and date	No Items	Location
Perm		
720409	2	RIM

Table 34. SS-7 Propellant Transporter

Drovyanaya		
720331	2	RIM
Gladkaya		
720329	2	GSE (SS-11)
720405	2	GSE (SS-11)

Table 35. SS-8 Propellant Transporter

Kozelsk		
720127	5	REC
720204	5	REC

Table 36. SS-11 Propellant Transporter

Drovyanaya		
720331	2	RIM
Gladkaya		
720407	1	PRO
Tatishchevo		
720408	4	TNG

Table 37. SS-7 Oxidizer Transporter

Teykovo		
720128	4	GSE
Perm		
720409	2	GSE

Table 38. SS-11 Oxidizer Transporter

Gladkaya		
720329	1	PRO
Kozelsk		
720127	6	PRO
720204	6	PRO
720319	6	PRO
Olovyanaya		
720401	1	GSE
Svobodnyy		
720320	4	PRO
Tatishchevo		
720408	2	TNG
Teykovo		
720128	4	GSE

Table 39. SS-7 Fuel Transporter

Olovyanaya		
720401	5	PRO
Teykovo		
720128	5	GSE

TOP SECRET RUFF

TOP SECRET RUFF

25X1

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Sanitized Copy Approved for Release 2011/08/09 : CIA-RDP78T05162A000300010003-5

25X1

SS-11 (Continued)

Table 40. SS-8 Fuel Transporter

Complex and date	No Items	Location
Kozelsk		
720319	6	REC

Table 41. SS-11 Fuel Transporter

Gladkaya		
720329	2	PRO
Svobodnyy		
720320	2	PRO
Tatishchevo		
720122	2	PRO
720408	2	TNG (1) PRO (1)

Table 42. Propellant Railcar

Perm		
720124	2	REC
720409	1	REC

Table 43. Oxidizer Railcar

Kozelsk		
720127	10	PRO
720204	10	PRO
720319	10	PRO
Tatishchevo		
720122	8	REC
720408	8	REC

Table 44. Fuel Railcar

Complex and date	No Items	Location
Olovyanaya		
720401	8	REC

Table 45. Missile Railcar

Gladkaya		
720329	1	REC
720405	5	REC
Kostroma		
720127	3	PRO
720128	3	PRO
Kozelsk		
720127	1	RIM
720204	1	RIM
720319	2	RIM
Perm		
720124	2	REC
720127	2	REC
720228	3	REC
720409	4	REC
Svobodnyy		
720121	2	REC SS-7
720320	2	REC
Teykovo		
720128	5	REC

TOP SECRET RUFF

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25X1

SS-11 (Continued)

Table 46. Liquid Oxygen Railcar

Complex and date	No Items	Location
Kozelsk		
720127	3	REC
720204	3	REC
720319	3	REC

Table 47. House Trailer

Drovyanaya		
720331	6	SS-7 RIM
Kozelsk		
720127	9	GSE (4) RIM (5)
720204	9	GSE (4) RIM (5)
720319	27	SS-8 REC (7) RIM (10) VEM (1) GSE (9)
Olovyannaya		
720401	3	SS-7 RIM (1) RIM (1) PRO (1)
Svobodnyy		
720121	6	PRO
720320	6	PRO
Teykovo		
720128	7	RIM (4) SS-7 GSE (3)

Table 48. Crane

Complex and date	No Items	Location
Drovyanaya		
720331	1	MSA
Gladkaya		
720329	2	RIM (1) REC (1)
720407	1	GEN
Olovyannaya		
720401	6	SS-7 RIM (1) NUC (2) PRO (2) GSE (1)
Svobodnyy		
720121	2	SS-7 REC
720320	2	REC (1) RIM (1)
Tatishchevo		
720408	1	TRN

TOP SECRET RUFF

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Sanitized Copy Approved for Release 2011/08/09 : CIA-RDP78T05162A000300010003-5

25X1

SS-11's at MR/IR

Table 50. SS-11 Missile Transporter

Complex and date	No Items	Location
Derazhnya		
720124	5	REC
720125	5	REC
720202	5	REC
720226	5	REC
720325	5	REC
720402	5	REC
720409	5	REC
Pervomaysk		
720126	4	REC

Table 51. SS-11 Silo Loader

Derazhnya		
720124	2	REC
720125	2	REC
720202	2	REC
720226	2	REC
720325	2	REC
720402	2	REC
720409	2	REC
Pervomaysk		
720126	2	REC

Table 52. SS-11 Oxidizer Transporter

Derazhnya		
720325	7	PRO
720402	7	PRO
720409	7	PRO
Pervomaysk		
720126	4	PRO

Table 53. SS-11 Fuel Transporter

Complex and date	No Items	Location
Derazhnya		
720325	3	PRO
720402	3	PRO
720409	3	PRO
Pervomaysk		
720126	2	PRO

Table 54. Propellant Railcar

Pervomaysk		
720126	4	PRO

Table 55. Oxidizer Railcar

Derazhnya		
720124	2	REC
720125	2	REC
720202	1	REC
720226	2	REC
720325	2	REC
720402	2	REC
720409	1	REC

Table 56. Fuel Railcar

Derazhnya		
720226	1	REC

TOP SECRET RUFF

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SS-11's at MR/IR (Continued)

Table 57. Missile Railcar

Complex and date	No Items	Location
Derazhnya		
720124	7	REC
720125	7	REC
720202	7	REC
720226	7	REC
720325	7	REC
720402	7	REC
720409	7	REC
Pervomaysk		
720126	4	MSA (1) REC (3)

Table 58. Crane

Derazhnya		
720325	2	PRO
720402	2	PRO
720909	1	REC

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SS-13

Table 59. SS-7 First-stage Transporter

Complex and date	No Items	Location
Yoshkar-Ola 720321	4	MAT

Table 60. SS-7 Second-stage Transporter

Yoshkar-Ola 720321	4	MAT

Table 61. SS-7 Oxidizer Transporter

Yoshkar-Ola 720321	3	MAT (2) REC (1)

Table 62. SS-7 Fuel Transporter

Yoshkar-Ola 720321	4	MAT

Table 63. House Trailer

Yoshkar-Ola 720321	2	RIM (SS-7)

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REFERENCES

DOCUMENT

1. NPIC. [redacted] PIR-024/72, Activity Levels at Rail-to-Road Transfer Points at Soviet SSM Complexes, USSR, Jun 72 (TOP SECRET RUFF)

RELATED DOCUMENTS

[redacted] PIN-081/71, Unidentified Equipment in the Nuclear Warhead Handling Facility, Aleysk ICBM Complex, USSR, Jun 71 (TOP SECRET RUFF)

NPIC. [redacted] PIN-061/72, Training Areas at SS-9 ICBM Receiving Areas, USSR, May 72 (TOP SECRET RUFF)

REQUIREMENT

NPIC/IEG/MSD/OMB Project 251072

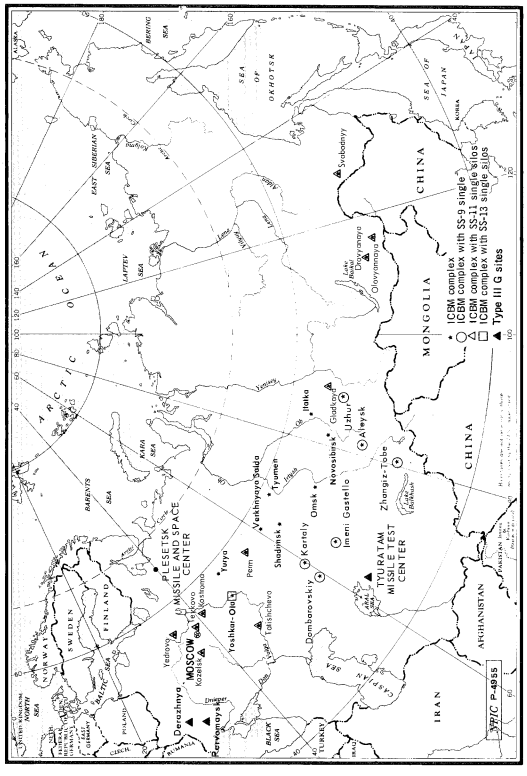

FIGURE 1. LOCATION OF DEPLOYED ICBM COMPLEXES

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